1014-52-1524   **Frederick V Henle** (`fredhenle@gmail.com`), 300 E. Seminary Street, Mercersburg, PA 17236-1550, and **James M Henle*** (`jhenle@smith.edu`), Clark Science Center, Smith College, Northampton, MA 01060-2165. *Squaring the Plane.*

We prove that it is possible to tile the plane with non-overlapping squares using exactly one square of each integral sidelength. (Received September 28, 2005)